



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patont and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/047,044	01/14/2002	Jeremy E. Dahl	005950-774	5442
75	590 07/24/2002			
Gerald F. Swiss, Esq. BURNS, DOANE, SWECKER & MATHIS, L.L.P. P.O. Box 1404			EXAMINER	
			WILLIAMS, ALEXANDER O	
Alexandria, VA 22313-1404			ART UNIT	PAPER NUMBER
			ARTONII	PAPER NUMBER
			2826	
			DATE MAILED: 07/24/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Amplia 4/a)				
Office Action Summary			Applicant(s)				
		10/047,044 Examin r	DAHL ET AL.				
		Alexander O Williams	Art Unit				
	Th MAILING DATE of this communication app		2826 correspond nce address				
Period to	Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1)🖂	Responsive to communication(s) filed on 14 J	anuary 2002 .					
2a)□	This action is FINAL . 2b) Thi	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4) Claim(s) <u>1-60</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)	6) Claim(s) is/are rejected.						
7)	7) Claim(s) is/are objected to.						
8) Claim(s) <u>1-60</u> are subject to restriction and/or election requirement. Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12)☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)[a) ☐ All b) ☐ Some * c) ☐ None of:						
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
İ	 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
i	14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
2) Notice 3) Informa	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal Pa	PTO-413) Paper No(s) tent Application (PTO-152)				
U.S. Patent and Trac PTO-326 (Rev.		on Summary	Part of Paper No. 3				

Application/Control Number: 10/047,044

Art Unit: 2826

DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1 to 14, drawn to a thermally conductive material, classified in class 361, subclass 225+.
- II. Claims 15 to 28, drawn to a low k material, classified in class 505, subclass 800+.
- III. Claims 29 to 45, drawn to a field emission device, classified in class 315, subclass 3+.
- IV. Claims 46 to 51, drawn to a capacitor, classified in class 257, subclass537.
- V. Claims 52 to 57, drawn to an integrated circuit device, classified in class257, subclass 712.
- VI. Claims 58 to 60, drawn to a method of nucleating the growth of a diamond film, classified in class 430, subclass 4+.

The inventions are distinct, each from the other because of the following reasons:

Inventions I, II, III, IV and V are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention I has separate utility such as being used with other application other than a field emission device, capacitor or integrated circuit device. See MPEP § 806.05(d).

Application/Control Number: 10/047,044

Art Unit: 2826

Inventions V and VI are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the diamond film can be grown by another process.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander O Williams whose telephone number is (703) 308 4863. The examiner can normally be reached on M-F 6:30-7:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (703) 308 6601. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308 7722 for regular communications and (703) 308 7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308 0956.

AOW July 21, 2002

Alexander Williams

Primary Examiner